



Launch Mission Execution Forecast

Mission: Falcon 9 Starlink 4-6

Issued: 15 Jan 2022 / 0800L (1300Z)

Valid: 17 Jan 2022 / 1916 – 2136L (18/0016 – 0236Z)



Forecast Discussion: Another cool, clear day is expected in Central Florida as winds become southerly ahead of an approaching low pressure area moving along the Gulf Coast States. Sunday will bring considerable cloudiness, breezy conditions, and rain showers with isolated thunderstorms along the Space Coast as the low pressure area moves into the Carolinas while dragging a cold front through Florida. Rain and thunder chances will drop as the front passes in the afternoon, but winds will remain gusty for some time. Clouds will diminish through the day Monday at the Spaceport, leaving gusty winds as the primary launch weather threat.

On Tuesday, high pressure will settle overhead making for a chilly morning, but excellent launch weather conditions.

Launch Day	Probability of Violating Weather Constraints					
	30%	Primary Concerns: Liftoff Winds				
	Weather Conditions				Additional Risk Criteria	
	Weather/Visibility: None / 7 mi.	Clouds				Upper-Level Wind Shear: Moderate
	Temp/Humidity: 52°F / 72%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather: Low-Mod
24-Hour Delay	Liftoff Winds (200'): 280° 20 - 25 mph	Cirrostratus	Few	28,000	30,000	Solar Activity: Low
	Probability of Violating Weather Constraints					
	<10%	Primary Concerns: Liftoff Winds				
	Weather Conditions				Additional Risk Criteria	
	Weather/Visibility: None / 7 mi.	Clouds				Upper-Level Wind Shear: Low
Temp/Humidity: 52°F / 72%		Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather: Low
Liftoff Winds (200'): 360° 5 - 10 mph		Stratocumulus	Few	2,500	4,000	Solar Activity: Low
		Cirrus	Few	30,000	32,000	
Note: The Probability of Violation (POV) is the chance that a Lightning Launch Commit Criteria (LLCC) or certain user constraints (surface winds, precipitation, and temperatures, etc.) will be violated during the launch window. It does not take into account upper-level wind shear, booster recovery weather, and solar activity.						
Next Forecast Will Be Issued		16 Jan 2022				